

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HARDCE Examiner #: 78736 Date: 8/7/03
 Art Unit: 1751 Phone Number 301-5597 Serial Number: 09/914,742
 Mail Box and Bldg/Room Location: 933C Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

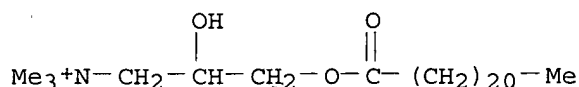
**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

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WHATEVER YOU CAN FIND.
THANKS.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Sanna, AM</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>305 3742</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>ETC 1700</u>	Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>8/11/03</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/18/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>60 min</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>17 min</u>	Other _____	Other (specify) _____



● Cl⁻

IC C11D001-65
 CC 46-4 (Surface Active Agents and Detergents)
 ST **quaternary ammonium** softener textile; complex
quaternary ammonium softener
 IT Softening agents
 (quaternary ammonium compds., for textiles, stable
 aq. dispersions of)
 IT **Quaternary ammonium** compounds, uses and miscellaneous
 RL: USES (Uses)
 (softening agents, for textiles, stable dispersions contg. anionic
 surfactants and)
 IT Surfactants
 (anionic, stable aq. dispersions of **quaternary**
ammonium compds. contg., as **fabric softeners**
)
 IT 57-09-0 112-03-8 **69537-38-8**
 RL: USES (Uses)
 (softening agents, for textiles, stable dispersions contg. anionic
 surfactants and)

L12 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1979:123492 CAPLUS
 DOCUMENT NUMBER: 90:123492
 TITLE: Compositions for softening garments
 PATENT ASSIGNEE(S): Unilever N. V., UK
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53134995	A2	19781125	JP 1978-24006	19780302
GB 1597513	A	19810909	GB 1977-8905	19770302
AU 7833713	A1	19790906	AU 1978-33713	19780301
AU 515806	B2	19810430		
ZA 7801187	A	19791031	ZA 1978-1187	19780301
BR 7801253	A	19781031	BR 1978-1253	19780413

PRIORITY APPLN. INFO.: GB 1977-8905 19770302
 AB Powd. softening compns., useful for softening garments in household
 washing machines, were prepd. by mixing urea [57-13-6], sorbitol

[50-70-4], mannose [3458-28-4], sucrose [57-50-1], or an inorg. salt with compns. contg. a **quaternary ammonium** salt, a nonionic or amphoteric surfactant, and a nonionic hydrophobic compd. Thus, ditallowdimethylammonium chloride 13.5, monotallowtrimethylammonium chloride 1.5, iso-PrOH 1.4, H₂O 3.6, glycerol trioleate [122-32-7] 7.5, ethoxylated soybean amine 7.5, and urea 70 parts were mixed and dried. Cotton towels were rinsed with a dispersion contg. 0.0333 part of the dried particles and 1000 parts H₂O and dried to give towels with the degree of softening similar to that of a fabric softened with a com. liq. agent.

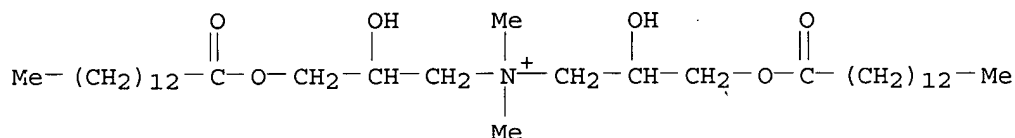
IT 69537-37-7 69537-38-8

RL: USES (Uses)

(powd. **fabric softeners** contg.)

RN 69537-37-7 CAPLUS

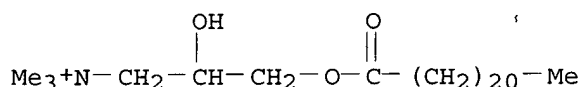
CN 1-Propanaminium, 2-hydroxy-N-[2-hydroxy-3-[(1-oxotetradecyl)oxy]propyl]-N,N-dimethyl-3-[(1-oxotetradecyl)oxy]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 69537-38-8 CAPLUS

CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(1-oxodocosyl)oxy]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC D06M013-46

CC 46-4 (Surface Active Agents and Detergents)

ST fabric softener powd; glycerol trioleate fabric softener; **quaternary ammonium** fabric softener; urea fabric softener; carbohydrate fabric softener

IT Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous

Quaternary ammonium compounds, uses and miscellaneous

RL: USES (Uses)

(powd. **fabric softeners** contg.)

KOROMA EIC1700

IT Softening agents
(**quaternary ammonium** compds.-surfactant-hydrophobic
compd.-inorg. particle or -org. particle mixts., powd., for garments)

IT Wearing apparel
(softening of, in washing machine, powd. agents for)

IT Amines, uses and miscellaneous
(soybean, ethoxylated, powd. **fabric softeners**
contg.)

IT Amines, uses and miscellaneous
RL: USES (Uses)
(tallow, ethoxylated, powd. **fabric softeners**
contg.)

IT 50-70-4, uses and miscellaneous 57-13-6, uses and miscellaneous
57-50-1, uses and miscellaneous 112-41-4 122-32-7 124-18-5
497-19-8, uses and miscellaneous 593-45-3 1333-73-9 3458-28-4
7425-12-9 7647-14-5, uses and miscellaneous 7757-82-6, uses and
miscellaneous 9004-96-0 9004-98-2 11113-50-1 15007-61-1
25322-68-3D, alkyl ethers **69537-37-7 69537-38-8**
69537-39-9 69537-40-2
RL: USES (Uses)
(powd. **fabric softeners** contg.)



STIC Search Results Feedback Form

EIC17000

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Kathleen Fuller, EIC 1700 Team Leader
308-4290, CP3/4-3D62

Voluntary Results Feedback Form

- I am an examiner in Workgroup: Example: 1713
➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



=> file reg

FILE 'REGISTRY' ENTERED AT 16:46:21 ON 18 AUG 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

DICTIONARY FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> file caplus

FILE 'CAPLUS' ENTERED AT 16:46:25 ON 18 AUG 2003

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FILE COVERS 1907 - 18 Aug 2003 VOL 139 ISS 8

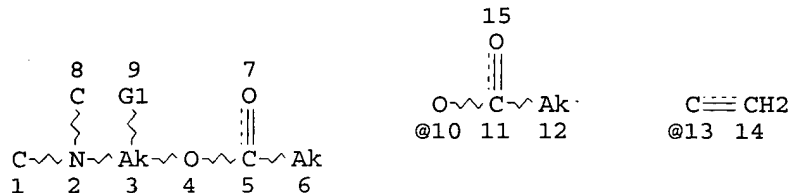
FILE LAST UPDATED: 17 Aug 2003 (20030817/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR

KOROMA EIC1700



VAR G1=OH/10/13
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M6 C AT 6
 ECOUNT IS M6 C AT 12

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L3 SCR 1838
 L5 856 SEA FILE=REGISTRY SSS FUL L1 NOT L3
 L6 1889 SEA FILE=CAPLUS ABB=ON PLU=ON L5
 L7 1615 SEA FILE=CAPLUS ABB=ON PLU=ON FABRIC SOFTENERS/IT
 L8 54277 SEA FILE=CAPLUS ABB=ON PLU=ON QUATERNARY AMMONIUM
 L9 82 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND L6
 L10 16 SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND L7
 L11 17 SEA FILE=CAPLUS ABB=ON PLU=ON L6 AND L7
 L12 17 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR L10

=> d ibib abs hitstr ind total l12

L12 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:645980 CAPLUS
 DOCUMENT NUMBER: 133:239741
 TITLE: Esterquats, their intermediates, a process to make the
 esterquats, and their use as fabric softeners
 INVENTOR(S): Ahrens, Hartmut; Bergfeld, Manfred Josef
 PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000053570	A1	20000914	WO 2000-EP1738	20000228
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1159257 A1 20011205 EP 2000-909277 20000228
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2002539111 T2 20021119 JP 2000-604011 20000228
 PRIORITY APPLN. INFO.: EP 1999-200638 A 19990305
 WO 2000-EP1738 W 20000228

OTHER SOURCE(S): MARPAT 133:239741

AB The title esterquats are of the formula: $R_4[R_5R_6N+Z]_n X^-$, wherein Z is covalently bonded to the nitrogen atom and selected from various specified ester-contg. groups, R_4 is C1-6 alkyl or independent Z, R_5 is H, C1-6 alkyl, independent Z, or the residue of the quaternizing agent, such as C1-30 alkyl or alkenyl, preferably, C1-7 alkyl or alkenyl, R_6 is C1-6 alkyl or independent Z, and X^- is an ion selected from Cl-, Br-, I-, F-, $CH_3SO_4^-$, $C_2H_5SO_4^-$, $H_2PO_4^-$, HPO_4^{2-} , PO_4^{3-} , $H_2PO_3^-$, HPO_3^{2-} , $H_2PO_2^-$, HPO_2^{2-} , nitrate-, formate-, acetate-, propionate-, tartrate- and benzoate-, wherein the total charge of the anions equals the total charge of the cations.

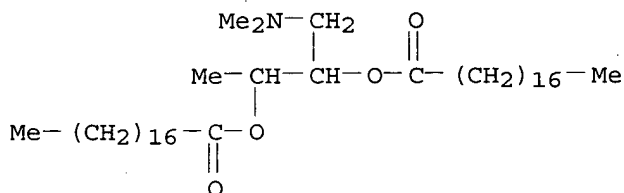
IT 293729-68-7P 293729-69-8P 293729-71-2P
 293729-72-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(esterquats, their intermediates, a process to make the esterquats, and their use as fabric softeners)

RN 293729-68-7 CAPLUS

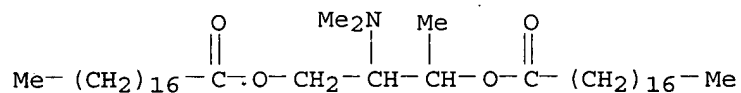
CN Octadecanoic acid, 1-[(dimethylamino)methyl]-2-methyl-1,2-ethanediyl ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 293729-69-8 CAPLUS

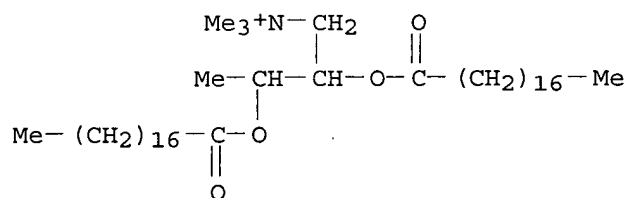
CN Octadecanoic acid, 2-(dimethylamino)-1-methyl-1,3-propanediyl ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 293729-71-2 CAPLUS

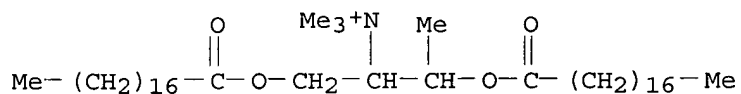
CN 1-Butanaminium, N,N,N-trimethyl-2,3-bis[(1-oxooctadecyl)oxy]-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

RN 293729-72-3 CAPLUS

CN 2-Butanaminium, N,N,N-trimethyl-1,3-bis[(1-oxooctadecyl)oxy]-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

IC ICM C07C219-06

ICS C07C219-08; C07C215-24; C11D001-62

CC 46-4 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

ST ester **quaternary ammonium** compd fabric softener

IT **Fabric softeners**

(esterquats, their intermediates, a process to make the esterquats, and their use as **fabric softeners**)

IT **Quaternary ammonium** compounds, uses

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

KOROMA EIC1700

(esterquats, their intermediates, a process to make the esterquats, and their use as **fabric softeners**)

IT 121473-61-8P 293729-70-1P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (esterquats, their intermediates, a process to make the esterquats, and their use as **fabric softeners**)

IT 293729-68-7P 293729-69-8P 293729-71-2P 293729-72-3P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (esterquats, their intermediates, a process to make the esterquats, and their use as **fabric softeners**)

IT 57-11-4, Stearic acid, reactions 593-81-7, Trimethylamine hydrochloride 930-22-3 293729-64-3 293729-66-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (esterquats, their intermediates, a process to make the esterquats, and their use as **fabric softeners**)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:704975 CAPLUS

DOCUMENT NUMBER: 131:311938

TITLE: Fabric softener compositions applied at high levels to cotton and/or cotton blended fabric

INVENTOR(S): Trinh, Toan; Miller, Ronald Joseph, Jr.; Desmarais, Maureen Higgins; Wahl, Error Hoffmann; Corona, Alessandro, III; Owen, Richard Thomas; Conrad, Kathleen Joan; Oler, Chad James; Demeyere, Hugo Jean Marie; Okamoto, Mitsuyo

PATENT ASSIGNEE(S): Procter and Gamble Co., USA

SOURCE: U.S., 30 pp., Cont.-in-part of Appl. No. PCT/US97/18933.
 CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5977055	A	19991102	US 1998-13794	19980126
WO 9817757	A2	19980430	WO 1997-US18933	19971021

W: BR, CA, CN, JP, MX, US
 RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: US 1996-28906P P 19961021
 WO 1997-US18933 A2 19971021

OTHER SOURCE(S): MARPAT 131:311938

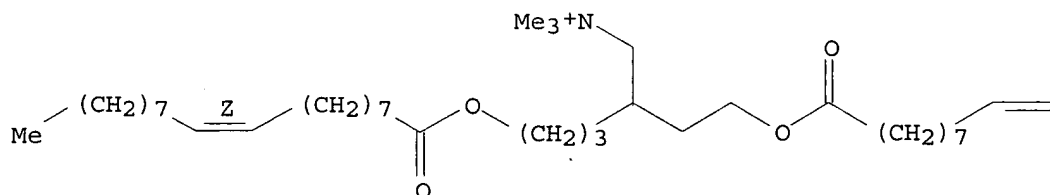
AB Highly unsatd. fabric softener active **quaternary ammonium** compds., preferably contg. ester linkages, are used at .gtorsim.3 g of fabric softener active/kg fabric for improved softening,

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

RN 206555-08-0 CAPLUS

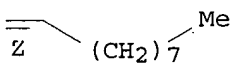
CN 1-Pentanaminium, N,N,N-trimethyl-5-[[(9Z)-1-oxo-9-octadecenyl]oxy]-2-[2-
[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A



● C1 -

PAGE 1-B



NCL 510515000

ST fabric softener fade resistance; softener fabric care benefit color maintenance; **quat** **ammonium** compd fabric softener

(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity).

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(tetraalkyl, (di)alkyldimethylammonium chloride; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)

IT Quaternary ammonium compounds, uses

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(tetraalkyl, fatty ester of bis(N-hydroxyethyl) dimethylammonium chloride; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)

IT 7212-69-3, Dioleyldimethylammonium chloride 10450-69-8,
Oleyltrimethylammonium chloride 63441-26-9 70206-24-5, Varisoft 3690
72403-37-3 84924-22-1, Diisostearyldimethylammonium chloride
92888-37-4, Varisoft 222LT 206555-08-0

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:455421 CAPLUS

DOCUMENT NUMBER: 129:124097

TITLE: Fabric softener compositions with improved stability
of perfumes

INVENTOR(S): Yamaguchi, noriko; Inogoshi, Junichi; Aoyagi, Muneo

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10183468	A2	19980714	JP 1996-338537	19961218
PRIORITY APPLN. INFO.:			JP 1996-338537	19961218
OTHER SOURCE(S):			MARPAT 129:124097	

AB The compns. contain total 4-40% of (A) .gtoreq.1 amines, their neutralized products with inorg. or C1-6 org. acids, or their quaternized products selected from R1NR2R3, R4NR5R6, R7NR8R9, RaQYZ, and RccO2CH2CH(OCORd)CpH2pNRerf (R1, R4 = C16-25 alkyl or alkenyl having ester or amide linkage; R2, R3 = C1-4 alkyl, alkenyl; R5 = C16-25 alkyl or alkenyl having ester or amide linkage, C14-24 alkyl, alkenyl; R6, Re, Rf = C1-4 alkyl, hydroxyalkyl; R7-9 = C15-25 alkyl or alkenyl having ester or amide linkage; Y = NH, O; Z = H, CORb; Ra, Rb, Rc, Rd = C13-23 alkyl, alkenyl; Q = 2-imidazoline-1-ethylene; p = 1-3) and (B-1) Na2SO3, CaSO3, Na2S2O3, thiourea dioxide, and/or Na2S2O4 or (B-2) H2O2 and/or org. acids.

Thus, a cotton towel and an acrylic fabric were washed, treated with tap water and a compn. contg. 10% N-methyldiethanolamine distearate quaternized with MeCl and 0.5% Na2SO3, and dehydrated to show good fragrance.

IT 205311-24-6

RL: TEM (Technical or engineered material use); USES (Uses)
(fabric softener compns. with improved stability of perfumes)

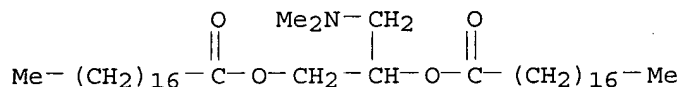
RN 205311-24-6 CAPLUS

CN Octadecanoic acid, 1-[(dimethylamino)methyl]-1,2-ethanediyl ester, sulfate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 121315-93-3

CMF C41 H81 N O4

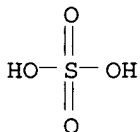


CM 2

CRN 7664-93-9

CMF H2 O4 S

not Quaternized



IC ICM D06M013-325

ICS D06M011-50; D06M011-54; D06M011-56; D06M011-58; D06M013-10;
D06M013-352

CC 46-5 (Surface Active Agents and Detergents)

ST fabric softener fragrance retention methyldiethanolamine stearate; sodium sulfite fabric softener fragrance retention

IT **Fabric softeners**

(fabric softener compns. with improved stability of perfumes)

IT Amides, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(fatty, palm-oil; fabric softener compns. with improved stability of perfumes)

IT Fatty acids, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(palm-oil, esters, hydrogenated; fabric softener compns. with improved stability of perfumes)

KOROMA EIC1700

IT Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow, esters; fabric softener compns. with improved stability of perfumes)

IT Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow, hydrogenated, esters; fabric softener compns. with improved stability of perfumes)

IT Amides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow, hydrogenated; fabric softener compns. with improved stability of perfumes)

IT Amides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow; fabric softener compns. with improved stability of perfumes)

IT 1758-73-2, Thiourea dioxide 2388-12-7, Dodecaneperoxoic acid
 4985-85-7D, esters and amides with tallow-fatty acids, hydrochloride
 7722-84-1, Hydrogen peroxide, uses 7757-83-7, Sodium sulfite
 7772-98-7, Sodium thiosulfate 7775-14-6, Sodium dithionite 10257-55-3,
 Calcium sulfite 14156-10-6, Decaneperoxoic acid 67846-68-8
 151734-20-2D, amides and esters with fatty acids, hydrochloride or
 quaternized 205311-24-6 210406-11-4 210406-12-5
 210406-13-6 210406-14-7D, esters, hydrochloride
 RL: TEM (Technical or engineered material use); USES (Uses)
 (fabric softener compns. with improved stability of perfumes)

L12 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:268583 CAPLUS
 DOCUMENT NUMBER: 128:309714
 TITLE: Fabric softener application at high levels to cotton
 and/or cotton blended fabric and softener packages
 INVENTOR(S): Wahl, Errol Hoffman; Trinh, Toan; Corona, Alessandro,
 III; Owen, Richard Thomas; Conrad, Kathleen Joan;
 Oler, Chad James; Des Marais, Maureen Higgins; Miller,
 Ronald Joseph, Jr.
 PATENT ASSIGNEE(S): Procter & Gamble Co., USA; Wahl, Errol Hoffman; Trinh,
 Toan; Corona, Alessandro, III; Owen, Richard Thomas;
 Conrad, Kathleen Joan; Oler, Chad James; Des Marais,
 Maureen Higgins; Miller, Ronald Joseph, Jr.
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817757	A2	19980430	WO 1997-US18933	19971021
W: BR, CA, CN, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 932656	A2	19990804	EP 1997-911817	19971021

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI

BR 9712638	A	19991026	BR 1997-12638	19971021
CN 1241205	A	20000112	CN 1997-180842	19971021
JP 2000505159	T2	20000425	JP 1998-519550	19971021
US 5977055	A	19991102	US 1998-13794	19980126

PRIORITY APPLN. INFO.: US 1996-28906P P 19961021
WO 1997-US18933 W 19971021

OTHER SOURCE(S): MARPAT 128:309714

AB Highly unsatd. fabric softener active **quaternary ammonium** compds., preferably contg. ester linkages, are used at .gtorsim.3 g of fabric softener active/kg fabric (.gtorsim.150%) to provide improved softening, antistatic benefits, wear benefits, color maintenance, etc., without unacceptable oily/greasy feel and/or unacceptable rewettability. Such a fabric softener compn. contains dioleyldimethylammonium chloride.

IT 206555-08-0

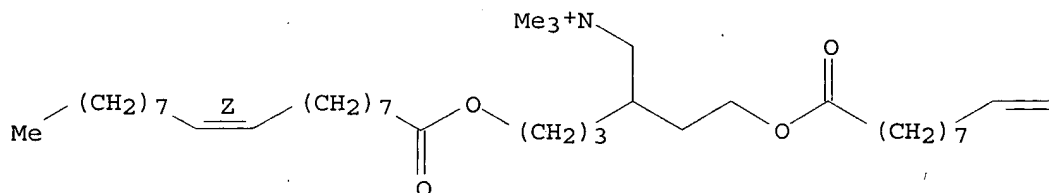
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)

RN 206555-08-0 CAPLUS

CN 1-Pentanaminium, N,N,N-trimethyl-5-[[[(9Z)-1-oxo-9-octadecenyl]oxy]-2-[2-[[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

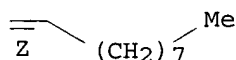
Double bond geometry as shown.

PAGE 1-A



● Cl⁻

PAGE 1-B



IC ICM C11D001-62

CC 46-5 (Surface Active Agents and Detergents)

KOROMA EIC1700

- ST **quaternary ammonium** compd softener compn; diester
quaternary ammonium softener; cotton fabric softener
 compn high level; rinse added fabric softener
- IT **Quaternary ammonium** compounds, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (dialkyldimethyl, chlorides; fabric softener application at high levels
 to cotton and/or cotton blended fabric for improved softening and
 antistatic and wear benefits and color maintenance and fiber integrity)
- IT **Fabric softeners**
 (fabric softener application at high levels to cotton and/or cotton
 blended fabric for improved softening and antistatic and wear benefits
 and color maintenance and fiber integrity)
- IT **Quaternary ammonium** compounds, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (tetraalkyl, alkyldimethyl, chlorides; fabric softener application at
 high levels to cotton and/or cotton blended fabric for improved
 softening and antistatic and wear benefits and color maintenance and
 fiber integrity)
- IT **Quaternary ammonium** compounds, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (tetraalkyl, bis(N-hydroxyethyl) di-Me, chlorides, fatty esters; fabric
 softener application at high levels to cotton and/or cotton blended
 fabric for improved softening and antistatic and wear benefits and
 color maintenance and fiber integrity)
- IT 7212-69-3 10450-69-8 63441-26-9 70206-24-5 72403-37-3 84924-22-1
 92888-37-4 206555-08-0
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (fabric softener application at high levels to cotton and/or cotton
 blended fabric for improved softening and antistatic and wear benefits
 and color maintenance and fiber integrity)

L12 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:256324 CAPLUS
 DOCUMENT NUMBER: 128:323178
 TITLE: Manufacture of odorless **quaternary
 ammonium** salts for softening agents
 INVENTOR(S): Tachizawa, Osamu; Sakaguchi, Akira; Kato, Toru
 PATENT ASSIGNEE(S): Kao Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10109967	A2	19980428	JP 1996-262704	19961003

PRIORITY APPLN. INFO.: JP 1996-262704 19961003

OTHER SOURCE(S): MARPAT 128:323178

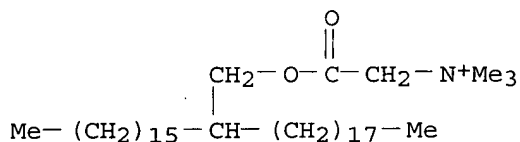
AB In manuf. of the biodegradable salts by reaction of NR1R2R3 (R1-3 = C1-4 alkyl, hydroxyalkyl) and halogenated esters, inorg. salts are used. Thus, 100 g 2-hexadecyleicosyl monochloroacetate was treated with 11.8 g Me3N in Me2CHOH in the presence of 3.7 g Na2CO3 to give 104 g Me3N+CH2CO2CH2CH[(CH2)17Me](CH2)15MeCl-, which was used as a fabric softener.

IT 176550-02-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manuf. of odorless **quaternary ammonium** salts for softening agents)

RN 176550-02-0 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl-



IC ICM C07C229-12

ICS B01J021-10; B01J023-04; B01J027-232; C07C227-08; C07B061-00

CC 46-5 (Surface Active Agents and Detergents)

ST odorless **quaternary ammonium** manuf sodium carbonate;
fabric softener **quaternary ammonium** salt odorless

IT **Fabric softeners**

(manuf. of odorless **quaternary ammonium** salts for softening agents)

IT **Quaternary ammonium** compounds, uses

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manuf. of odorless **quaternary ammonium** salts for softening agents)

IT 176550-02-0P 182234-35-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manuf. of odorless **quaternary ammonium** salts for softening agents)

IT 471-34-1, Calcium carbonate, uses 497-19-8, Sodium carbonate, uses 1309-48-4, Magnesium oxide, uses 1310-73-2, Sodium hydroxide, uses

RL: NUU (Other use, unclassified); USES (Uses)

(manuf. of odorless **quaternary ammonium** salts for softening agents)

IT 75-50-3, Trimethylamine, reactions . 176550-21-3 182234-39-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (manuf. of odorless quaternary ammonium salts for softening agents)

L12 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1997:632972 CAPLUS
 DOCUMENT NUMBER: 127:294575
 TITLE: Concentrated liquid softeners having no adverse effects on fiber dyeability or colorfastness
 INVENTOR(S): Miyasaka, Hiroo; Okuma, Yoichi; Yokoyama, Jun; Nihei, Shuichi; Ota, Seiichi
 PATENT ASSIGNEE(S): Lion Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

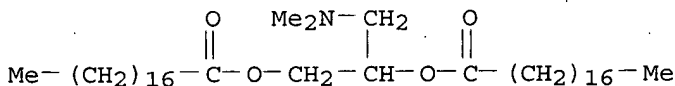
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09250085	A2	19970922	JP 1996-58827	19960315

PRIORITY APPLN. INFO.: JP 1996-58827 19960315

AB The title softeners contain (A) 30-80% amines having .gtoreq.1 long-chain hydrocarbon groups, neutralization products thereof, and/or quaternization products thereof, with iodine value .gtoreq.30; (B) 1-500 ppm dyes contg. amide or amino group and sulfonyl group; and 70-20% water and nonaq. solvents. A concd. softener comprised 40% methyldiethanolamine ester-exchanged with fatty acid Me ester and quaternized with MeCl, 0.001% C.I. Direct Yellow 8, 35% hexylene glycol, 3% ethylene glycol, 15% ethanol, 0.5% CaCl₂, 0.5% perfume, 1% Emalex 705, and water to 100%.

IT 121315-93-3D, quaternized
 RL: NUU (Other use, unclassified); USES (Uses)
 (concd. liq. softeners having no adverse effects on fiber dyeability or colorfastness)

RN 121315-93-3 CAPLUS
 CN Octadecanoic acid, 1-[(dimethylamino)methyl]-1,2-ethanediyl ester (9CI)
 (CA INDEX NAME)



IC ICM D06M013-47
 CC 40-6 (Textiles and Fibers)
 ST amine concd liq softener textile
 IT **Fabric softeners**
 (concd. liq. softeners having no adverse effects on fiber dyeability or colorfastness)

no Qual C. homolog of duster

IT Alcohols, uses
Quaternary ammonium compounds, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (concd. liq. softeners having no adverse effects on fiber dyeability or colorfastness)

IT 56-81-5, 1,2,3-Propanetriol, uses 64-17-5, Ethanol, uses 67-63-0, Isopropanol, uses 74-88-4D, Methyl iodide, reaction products with methyldiethanolamine fatty acid esters 105-59-9D, ester-exchanged with fatty acid Me ester, quaternized 107-21-1, 1,2-Ethanediol, uses 107-41-5, Hexylene glycol 111-76-2, Butyl Cellosolve 112-59-4, Diethylene glycol hexyl ether 992-59-6, C.I. Direct Red 2 1694-09-3, C.I. Food Violet 2 2429-73-4, C.I. Direct Blue 2 2650-18-2, C.I. Acid Blue 9 2868-75-9, C.I. Direct Red 7 3530-19-6, C.I. Direct Red 37 4857-81-2, C.I. Acid Green 9 5343-92-0, 1,2-Pentanediol 10130-29-7, C.I. Direct Yellow 8 13998-76-0D, quaternized 26272-76-4D, quaternized 63833-72-7D, quaternized **121315-93-3D**, quaternized 148274-05-9 153399-76-9D, quaternized 172617-88-8 197019-80-0 197019-81-1D, quaternized 197019-82-2D, quaternized 197019-83-3D, quaternized
 RL: NUU (Other use, unclassified); USES (Uses)
 (concd. liq. softeners having no adverse effects on fiber dyeability or colorfastness)

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1997:505171 CAPLUS
 DOCUMENT NUMBER: 127:222246
 TITLE: Biodegradable fabric cationic softener compositions with good storage stability
 INVENTOR(S): Yamaguchi, Noriko; Tatezawa, Osamu; Sakaguchi, Akira
 PATENT ASSIGNEE(S): Kao Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09195167	A2	19970729	JP 1996-3001	19960111
JP 3224191	B2	20011029		

PRIORITY APPLN. INFO.: JP 1996-3001 19960111

AB The title compns. comprise (A) **quaternary ammonium** salt group-contg. alkanolic acid C18-44 linear or branched alk(e)nyl esters optionally via polyoxyalkylene bridges, 3-30, (B) polyethylene glycol ethers 0.5-5, and (C) hydrotropes selected from polyhydric alcs., 0.5-20%. Thus, a softener compn. was obtained from trimethylammonioacetic acid 2-hexadecyleicosyl ester chloride salt 4.0, Emulgen 120 0.5 and ethylene glycol 1.5%.

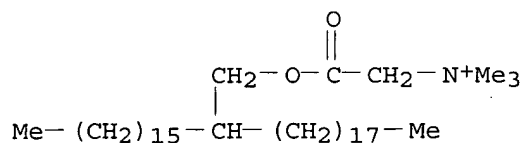
IT 176550-02-0 176550-24-6 190439-56-6
 190439-57-7 194594-51-9

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(biodegradable fabric cationic softener compns. with good storage stability)

RN 176550-02-0 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

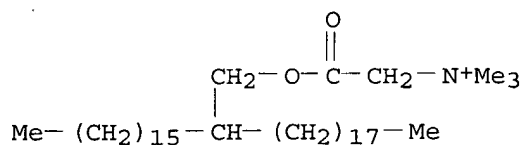
RN 176550-24-6 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 176550-23-5

CMF C41 H84 N O2



CM 2

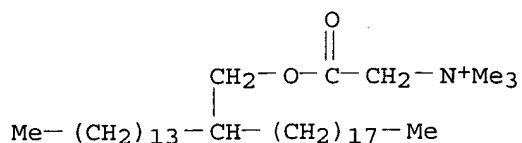
CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

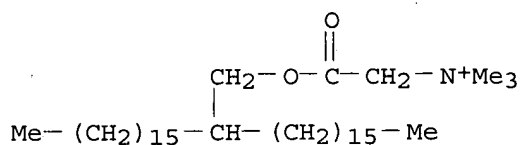
RN 190439-56-6 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-[(2-tetradecyleicosyl)oxy]-, chloride (9CI) (CA INDEX NAME)



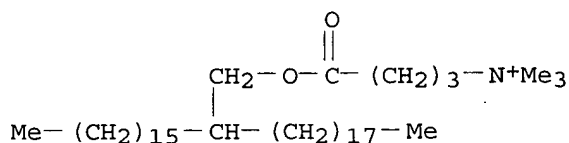
● Cl⁻

RN 190439-57-7 CAPLUS
CN Ethanaminium, 2-[(2-hexadecyloctadecyl)oxy]-N,N,N-trimethyl-2-oxo-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 194594-51-9 CAPLUS
CN 1-Butanaminium, 4-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-4-oxo-,
bromide (9CI) (CA INDEX NAME)



● Br⁻

IC ICM D06M013-463
CC 46-5 (Surface Active Agents and Detergents)
Section cross-reference(s): 40
ST biodegradable fabric softener cationic compn; storage stability fabric
softener cationic; polyethylene glycol ether fabric softener;
polyoxyethylene ether fabric softener; polyhydric alc compn fabric
softener; **quaternary ammonium** cationic fabric
softener; hydrotrope polyalc fabric softener cationic

- IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(C12-14 alkyl ether; biodegradable fabric cationic softener compns.
with good storage stability)
- IT Alcohols, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(C12-14, ethoxylated, Emulgen 130; biodegradable fabric cationic
softener compns. with good storage stability)
- IT Alcohols, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(C12-14-secondary, ethoxylated, Softanol 300; biodegradable fabric
cationic softener compns. with good storage stability)
- IT Biodegradable materials
Fabric softeners
Hydrotropes
(biodegradable fabric cationic softener compns. with good storage
stability)
- IT Quaternary ammonium compounds, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(biodegradable fabric cationic softener compns. with good storage
stability)
- IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(mono(alkyl group)-terminated; biodegradable fabric cationic softener
compns. with good storage stability)
- IT Alcohols, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyhydric; biodegradable fabric cationic softener compns. with good
storage stability)
- IT 9002-92-0, Emulgen 120 25322-68-3D, C12-14 alkyl ether
176550-02-0 176550-07-5 176550-24-6 185683-32-3
190439-56-6 190439-57-7 194594-51-9
194594-53-1
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(biodegradable fabric cationic softener compns. with good storage
stability)
- IT 56-81-5, 1,2,3-Propanetriol, uses 57-55-6, 1,2-Propanediol, uses
107-21-1, 1,2-Ethanediol, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(biodegradable fabric cationic softener compns. with good storage
stability)

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:397126 CAPLUS

DOCUMENT NUMBER: 127:35917

TITLE: Biodegradable, storable liquid softener compositions

providing softness and resiliency to cotton fibers as well as synthetic fibers

INVENTOR(S): Yamaguchi, Noriko; Inogoshi, Junichi; Tatezawa, Osamu; Sakaguchi, Akira

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09105076	A2	19970422	JP 1995-261609	19951009
PRIORITY APPLN. INFO.:			JP 1995-261609	19951009
OTHER SOURCE(S): MARPAT 127:35917				

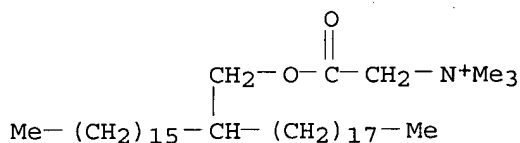
AB The title compns. contain (A) R₂R₃R₄N+(CH₂)_nCO₂R₁ X- and (B) R₂R₃R₄N+(CH₂)_nCO₂YmR₅ X- in 99.9/0.1 to 70/30 ratio with A + B content 3-40% [R₁ = C₁₈-44 alkyl, alkenyl; R₂-4 = C₁-5 alkyl, hydroxyalkyl; n = 1-6; X- = anion; R₅ = C₁₂-44 alkyl, alkenyl; Y = CH₂CH(R₆); R₆ = C₁₀-22 alkyl, alkenyl; m = 2-5]. A liq. softener contained 4% Me₃N+CH₂CO₂CH₂CH[(CH₂)₁₅Me](CH₂)₁₇Me Cl- and 0.5% Me₃N+CH₂CO₂CH₂CH[(CH₂)₁₅Me]CH₂CH[(CH₂)₁₅Me](CH₂)₁₇Me Cl-.

IT 176550-02-0 190439-56-6 190439-57-7
190439-58-8 190439-60-2 190439-61-3
190439-62-4 190439-63-5 190439-64-6
190439-65-7 190439-67-9

RL: TEM (Technical or engineered material use); USES (Uses)
(biodegradable, storable liq. softener compns. providing softness and resiliency to cotton fibers as well as synthetic fibers)

RN 176550-02-0 CAPLUS

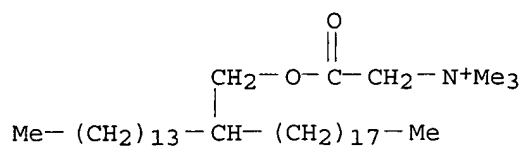
CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl-

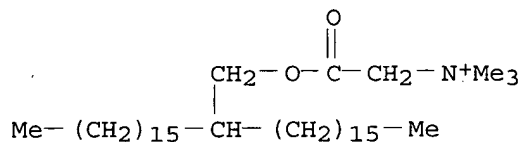
RN 190439-56-6 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-[(2-tetradecyleicosyl)oxy]-, chloride (9CI) (CA INDEX NAME)



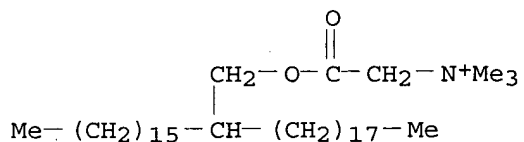
● Cl⁻

RN 190439-57-7 CAPLUS
CN Ethanaminium, 2-[(2-hexadecyloctadecyl)oxy]-N,N,N-trimethyl-2-oxo-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 190439-58-8 CAPLUS
CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, bromide
(9CI) (CA INDEX NAME)

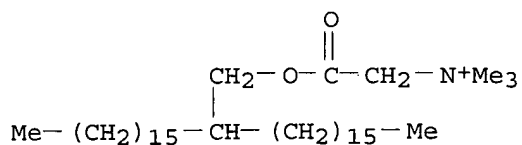


● Br⁻

RN 190439-60-2 CAPLUS
CN Ethanaminium, 2-[(2-hexadecyloctadecyl)oxy]-N,N,N-trimethyl-2-oxo-, methyl
sulfate (9CI) (CA INDEX NAME)

CM 1

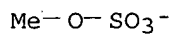
CRN 190439-59-9
CMF C39 H80 N O2



CM 2

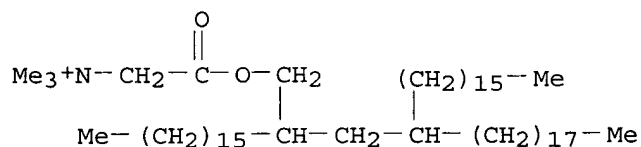
CRN 21228-90-0

CMF C H3 O4 S



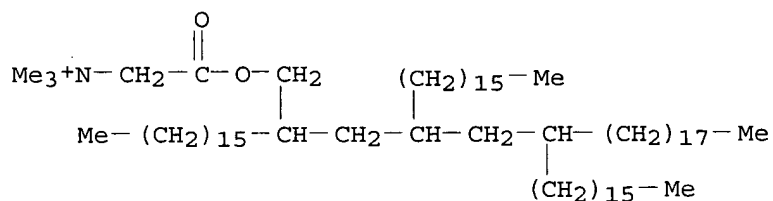
RN 190439-61-3 CAPLUS

CN Ethanaminium, 2-[(2,4-dihexadecyldocosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



RN 190439-62-4 CAPLUS

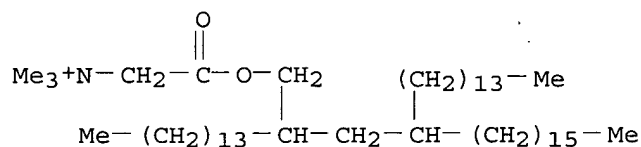
CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-[(2,4,6-trihexadecyltetracosyl)oxy]-, chloride (9CI) (CA INDEX NAME)



KOROMA EIC1700

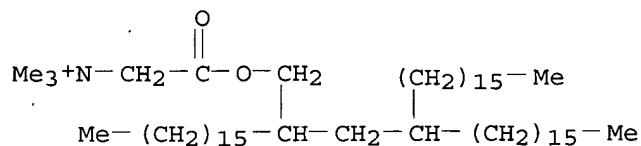
RN 190439-63-5 CAPLUS

CN Ethanaminium, 2-[(2,4-ditetradecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



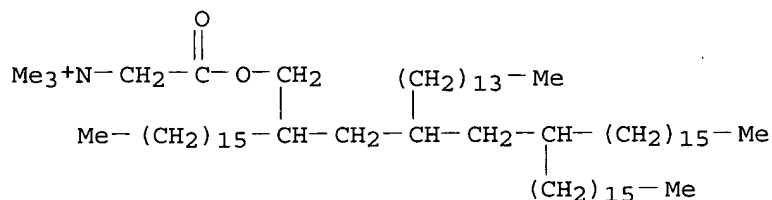
RN 190439-64-6 CAPLUS

CN Ethanaminium, 2-[(2,4-dihexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



RN 190439-65-7 CAPLUS

CN Ethanaminium, 2-[(2,6-dihexadecyl-4-tetradecyldocosyl)oxy]-N,N,N-trimethyl-2-oxo-, bromide (9CI) (CA INDEX NAME)



RN 190439-67-9 CAPLUS

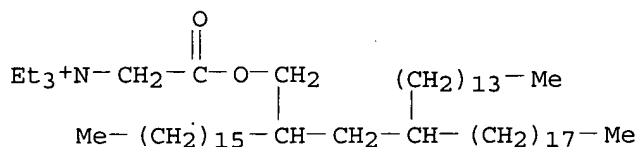
CN Ethanaminium, N,N,N-triethyl-2-[(2-hexadecyl-4-tetradecyldocosyl)oxy]-2-

oxo-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 190439-66-8

CMF C60 H122 N O2



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

IC ICM D06M013-463

CC 40-9 (Textiles and Fibers)

ST biodegradable **quaternary ammonium** fabric softener

IT Biodegradable materials

Fabric softeners

(biodegradable, storable liq. softener compns. providing softness and resiliency to cotton fibers as well as synthetic fibers)

IT **Quaternary ammonium** compounds, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(biodegradable, storable liq. softener compns. providing softness and resiliency to cotton fibers as well as synthetic fibers)

IT 112-57-2D, polyethylene polypropylene glycol adducts 9002-98-6D,
Polyethylenimine, polyethylene polypropylene glycol adducts 9003-11-6D,
Polyethylene polypropylene glycol, amine adducts 9082-00-2, Ethylene
oxide-propylene oxide copolymer glycerol ether 26913-06-4D,
Polyethylenimine, polyethylene polypropylene glycol adducts 31694-55-0,
Polyethylene glycol glycerin ether 56449-05-9, Ethylene oxide-propylene
oxide copolymer sorbitol ether 176550-02-0 185683-32-3
190439-56-6 190439-57-7 190439-58-8
190439-60-2 190439-61-3 190439-62-4
190439-63-5 190439-64-6 190439-65-7
190439-67-9

RL: TEM (Technical or engineered material use); USES (Uses)

(biodegradable, storable liq. softener compns. providing softness and resiliency to cotton fibers as well as synthetic fibers)

L12 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

KOROMA EIC1700

ACCESSION NUMBER: 1997:174804 CAPLUS
 DOCUMENT NUMBER: 126:172989
 TITLE: Liquid garment-softening compositions containing oligoglycosides
 INVENTOR(S): Shirato, Kazutaka; Inokoshi, Junichi; Sakaguchi, Akira
 PATENT ASSIGNEE(S): Kao Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08337971	A2	19961224	JP 1995-144583	19950612
JP 3415702	B2	20030609		

PRIORITY APPLN. INFO.: JP 1995-144583 19950612

OTHER SOURCE(S): MARPAT 126:172989

AB The antistatic and nongreasy compns. comprise (A) (oligo)glycosides bearing specific long-chain mixed alkyl-alkenyl groups and having d.p. 1-3, (oligo)glycosides bearing specific .beta.-branching long chain aliph. groups and having d.p. 1-5 or/and their .beta.-unsatd. analogs; (B) specific tertiary amines or/and their HCl-salts and ammonium salts; and (C) cationic cellulose compds. having Kjeldahl method-derived N content 0.1-4%.

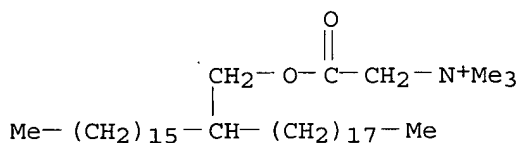
IT 176550-02-0

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(antistatic liq. garment-softening compns. contg. oligoglycosides)

RN 176550-02-0 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC ICM D06M015-03

ICS D06M013-463

CC 40-9 (Textiles and Fibers)

ST glycoside long chain aliph garment softener; antistatic glycoside garment softener; tertiary amine compd garment softener compn; ammonium compd garment softener compn; cationic cellulose garment softener compn; liq

garment softener nongreasy

IT **Fabric softeners**
(antistatic liq. garment-softening compns. contg. oligoglycosides)

IT **Quaternary ammonium** compounds, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(fatty acid-based; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT Antistatic agents
(liq. garment-softening compns. contg. oligoglycosides as)

IT Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(palm-oil, ammonium salts; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(tallow, **quaternary-ammonium** salts; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT 50-99-7D, D-Glucose, mixed long-chain ethers, oligomers, uses 59-23-4D, D-Galactose, mixed long-chain ethers, oligomers, uses 1811-31-0D, N-Acetylgalactosamine, mixed long-chain ethers, oligomers 52350-16-0, Catinal HC-200 81859-24-7 151955-38-3, N,N-Dimethyl-N-stearoyloxyethyl-N-stearoylaminopropylammonium chloride 154530-42-4, Catinal LC-200 168754-92-5, NK Polymer RE 176550-02-0
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(antistatic liq. garment-softening compns. contg. oligoglycosides)

IT 168754-97-0, Jellner QL100 186983-15-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(liq. garment-softening compns. contg. oligoglycosides)

L12 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:168404 CAPLUS

DOCUMENT NUMBER: 126:158726

TITLE: Liquid garment-softening compositions containing oligoglycosides

INVENTOR(S): Shirato, Kazutaka; Inokoshi, Junichi; Sakaguchi, Akira

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08337965	A2	19961224	JP 1995-144582	19950612
PRIORITY APPLN. INFO.:			JP 1995-144582	19950612

KOROMA EIC1700

OTHER SOURCE(S): MARPAT 126:158726

AB The antistatic and greasing-free compns. comprise (A) (oligo)glycosides bearing specific long-chain mixed alkyl-alkenyl groups and having d.p. 1-3, (oligo)glycosides bearing specific .beta.-branching long chain aliph. groups and having d.p. 1-5 or/and their .beta.-unsatd. analogs; (B) specific tertiary amines or/and their HCl-salts and ammonium salts; and optionally (C) cationic cellulose compds. having Kjeldahl method-derived N content 0.1-4%.

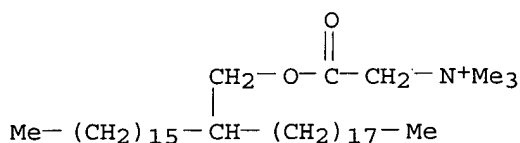
IT 176550-02-0

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(antistatic liq. garment-softening compns. contg. oligoglycosides)

RN 176550-02-0 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl-

IC ICM D06M013-165

ICS D06M013-352; D06M013-463; D06M015-05

CC 40-9 (Textiles and Fibers)

ST glycoside long chain aliph garment softener; tertiary amine compd garment softener compn; antistatic garment softener compn; ammonium compd garment softener compn; cationic cellulose garment softener compn; liq garment softener nongreasy

IT **Fabric softeners**

(antistatic liq. garment-softening compns. contg. oligoglycosides)

IT **Quaternary ammonium** compounds, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(fatty acid-based; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT Antistatic agents

(liq. garment-softening compns. contg. oligoglycosides as)

IT Glycosides

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(long-chain derivs.; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT Fatty acids, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

KOROMA EIC1700

(palm-oil, ammonium salts; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(tallow, salts, ammonium salts; antistatic liq. garment-softening compns. contg. oligoglycosides)

IT 50-99-7D, D-Glucose, mixed long-chain ethers, oligomers, uses 59-23-4D, D-Galactose, mixed long-chain ethers, oligomers, uses 1811-31-0D, N-Acetylgalactosamine, mixed long-chain ethers, oligomers 52350-16-0, Catinal HC-200 81859-24-7 151955-38-3 154530-42-4, Catinal LC-200 168754-92-5, NK Polymer RE 168754-97-0, Jellner QL100 176550-02-0

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(antistatic liq. garment-softening compns. contg. oligoglycosides)

IT 186983-15-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(liq. garment-softening compns. contg. oligoglycosides)

L12 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:79937 CAPLUS

DOCUMENT NUMBER: 126:89078

TITLE: Preparation of ester-containing **quaternary ammonium** salts as softeners for fabrics and hairs

INVENTOR(S): Tatezawa, Osamu; Sakaguchi, Akira; Kato, Tooru

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08301823	A2	19961119	JP 1995-112845	19950511
JP 3426785	B2	20030714		

PRIORITY APPLN. INFO.: JP 1995-112845 19950511

AB R1R2R3N+(CH2)nCO2[AO]mCH2CHR4R5.X- [I; R1-3 = C1-4 (hydroxy)alkyl; R4, R5 = (OH-substituted) C8-22 alkyl or alkenyl; A = C2-3 alkylene; X = halo; m = 0-20; n = 1-6], useful as biodegradable softeners for fabrics and hairs (no data), are prepd. by treating X(CH2)nCO2[AO]mCH2CHR4R5 (R4, R5, A, X, m, n = same as I) with NR1R2R3 (R1-3 = same as I) in closed systems. 2-Hexadecyleicosyl monochloroacetate was treated with NMe3 in Me2CHOH at 50.degree. for 3 h to give I [R1-3 = Me, R4 = (CH2)17Me, R5 = (CH2)15Me, X = Cl, m = 0, n = 1] with 99.3% conversion.

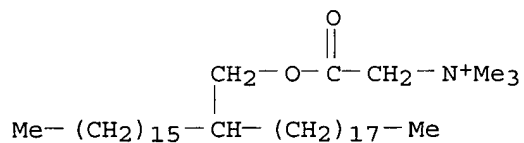
IT 176550-02-0P 176550-26-8P 176550-27-9P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of ester-contg. **quaternary ammonium** salts
as softeners for fabrics and hairs)

RN 176550-02-0 CAPLUS

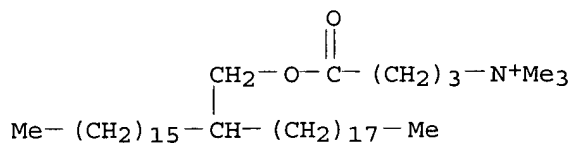
CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-26-8 CAPLUS

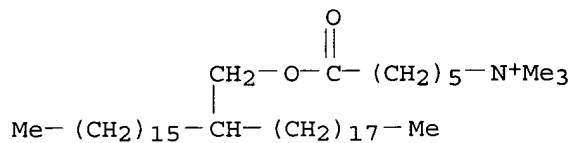
CN 1-Butanaminium, 4-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-4-oxo-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-27-9 CAPLUS

CN 1-Hexanaminium, 6-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-6-oxo-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC ICM C07C229-12

ICS C07C227-08

KOROMA EIC1700

- CC 23-17 (Aliphatic Compounds)
Section cross-reference(s): 46, 62
- ST **quaternary ammonium** ester prepn softener; fabric
softener **quaternary ammonium** prepn; hair softener
quaternary ammonium prepn; halo ester quaternization
tertiary amine
- IT **Quaternary ammonium** compounds, preparation
Quaternary ammonium compounds, preparation
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(halides; prepn. of ester-contg. **quaternary ammonium**
salts as softeners for fabrics and hairs)
- IT Biodegradable materials
Fabric softeners
Hair preparations
Quaternization
(prepn. of ester-contg. **quaternary ammonium** salts
as softeners for fabrics and hairs)
- IT Halides
Halides
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(**quaternary ammonium** halides; prepn. of
ester-contg. **quaternary ammonium** salts as softeners
for fabrics and hairs)
- IT Amines, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(tertiary; prepn. of ester-contg. **quaternary ammonium**
salts as softeners for fabrics and hairs)
- IT 176550-02-0P 176550-26-8P 176550-27-9P
185683-32-3P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(prepn. of ester-contg. **quaternary ammonium** salts
as softeners for fabrics and hairs)
- IT 75-50-3, reactions 176550-21-3 185683-33-4 185683-34-5 185683-35-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of ester-contg. **quaternary ammonium** salts
as softeners for fabrics and hairs)

L12 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:53913 CAPLUS

DOCUMENT NUMBER: 126:89068

TITLE: Preparation of **quaternary ammonium**
compounds as softeners

INVENTOR(S): Kato, Tooru; Tatezawa, Osamu; Sakaguchi, Akira;
Sotodani, Koshiro; Inokoshi, Junichi; Yamaguchi,
Noriko

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

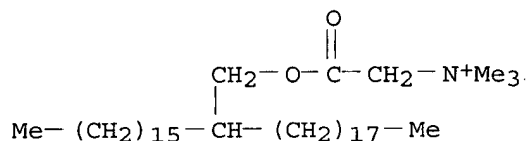
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08301822	A2	19961119	JP 1995-111544	19950510

PRIORITY APPLN. INFO.: JP 1995-111544 19950510
 OTHER SOURCE(S): MARPAT 126:89068
 AB The title compds. R1R2R3N+R4CO2CH2C(R6):CHR5 X- [R1 - R3 = alkyl, etc.; R4 = alkylene, etc.; R5 = C11 to C21 alkyl, etc.; R6 = C10 to C20 alkyl, etc.; X- = anion] are prepd. The title compds. show good biodegradability. The title compds. also show good softening activity in a test using fabric.
 IT 176550-02-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of **quaternary ammonium** compds. as softeners)
 RN 176550-02-0 CAPLUS
 CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl -

IC ICM C07C229-12
 ICS A61K007-075; C07C229-22; C11D003-33; D06M013-463
 CC 23-4 (Aliphatic Compounds)
 Section cross-reference(s): 34, 40, 46
 ST **quaternary ammonium** compd prepn fabric softener;
 fabric softener **quaternary ammonium** compd prepn
 IT **Fabric softeners**
 Softening agents
 (prepn. of **quaternary ammonium** compds. as softeners)
 IT **Quaternary ammonium** compounds, preparation
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of **quaternary ammonium** compds. as softeners)
 IT 79-11-8, Chloroacetic acid, reactions 112-92-5, Octadecanol 143-28-2,
 Oleyl alcohol 638-66-4, Octadecanal
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of **quaternary ammonium** compds. as

softeners)

IT 17658-63-8P 103401-08-7P 183166-88-3P 185376-52-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(prepn. of quaternary ammonium compds. as
 softeners)

IT 590-46-5DP, esters with long chain alkanols or alkenols
 176550-02-0P 183166-58-7P 185376-33-4P 185376-45-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of quaternary ammonium compds. as
 softeners)

L12 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:659179 CAPLUS

DOCUMENT NUMBER: 125:303845

TITLE: Biodegradable storage-stable fabric softener
 compositions for imparting improved softness,
 resilience and hygroscopicity to fabrics

INVENTOR(S): Yamaguchi, Noriko; Inokoshi, Junichi; Sakaguchi,
 Akira; Tatezawa, Osamu

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08199475	A2	19960806	JP 1995-7436	19950120
JP 3365878	B2	20030114		

PRIORITY APPLN. INFO.: JP 1995-7436 19950120

AB The softeners comprise (A) mixts. of alkoxyated glycerol fatty acid
 esters with specified structures and having Griffin hydrophile-lipophile
 balance (HLB) 5-15 and (B) R2R3R4N+(CH2)nCOO(ZO)mR1.X- or
 R2R3R4N+(CH2)nCOOCH2CH[(CH2)15Me](CH2)17Me.X- (R1 = C20-44 linear or
 branched alkyl or alkenyl; R2, R3, R4 = C1-5 alkyl or hydroxyalkyl; Z =
 C2-3 alkylene group or mixt. of ethylene and propylene groups; m = 0-20; n
 = 1-6) with A-B wt. ratio 2-1:1-9 and optionally contain (C) .ltoreq.110%
 (on B) linear or branched C8-44 satd. or unsatd. alcs., (D) .ltoreq.100%
 (on B) linear or branched C8-36 satd. or unsatd. fatty acids, (E)
 .ltoreq.60% (on B) C1-4 monohydric alcs., and (F) 0.5-5% polyethers contg.
 .gtoreq.55% oxyethylene units and propylene oxide units and/or triethylene
 oxide units and having wt.-av. mol. wt. 5000-2,000,000 and have total
 content of B and F components 4-45%. A cotton towel was laundered with a
 com. detergent for 5 cycles and treated with 0.5% (on fabric wt.) softener
 compn. contg. 4 parts reaction product (HLB 6.69) of 2:1:4 (mol ratio)
 mixt. of hydrogenated palm oil stearic acid deriv. Me ester, glycerol, and
 ethylene oxide, 16 parts R2R3R4N+(CH2)nCOOCH2CH[(CH2)15Me](CH2)17Me.X-
 (R1 = R2 = R3 = R4 =Me; n = 1; X = Cl), and 3 parts iso-PrOH for 3 min at
 25.degree. to give a fabric exhibiting softness rating (+2 best, -2 worst)

+2, resilience rating +2, and water absorption by a specified test 13.0 cm.

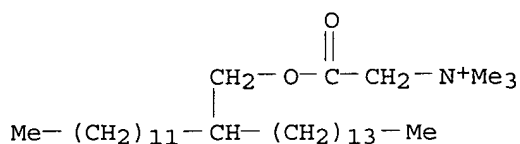
IT 176550-25-7P 176550-26-8P 176550-27-9P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fabric softener, contg. glycerol fatty acid esters, biodegradable; manuf. of biodegradable storage-stable compns. contg. glycerol fatty acid esters for imparting improved softness, resilience and hygroscopicity to fabrics)

RN 176550-25-7 CAPLUS

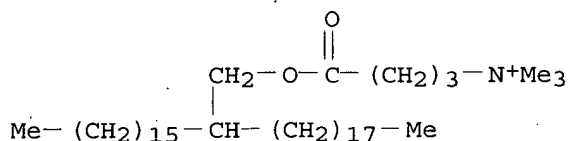
CN Ethanaminium, 2-[(2-dodecylhexadecyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-26-8 CAPLUS

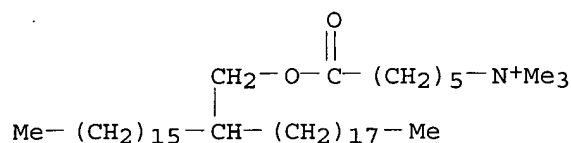
CN 1-Butanaminium, 4-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-4-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-27-9 CAPLUS

CN 1-Hexanaminium, 6-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-6-oxo-, chloride (9CI) (CA INDEX NAME)



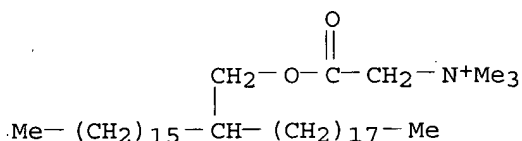
● Cl⁻

IT 176550-02-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(fabric softener; manuf. of biodegradable storage-stable compns. contg. glycerol fatty acid esters for imparting improved softness, resilience and hygroscopicity to fabrics)

RN 176550-02-0 CAPLUS

CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC ICM D06M013-224

ICS D06M013-463

CC 46-5 (Surface Active Agents and Detergents)

ST glycerol ester fabric softener biodegradable; **quaternary ammonium** compd fabric softener biodegradable; polyoxyalkylene fabric softener biodegradable; storage stability biodegradable fabric softener; laundering textile softener biodegradable; garment laundering softener biodegradable; cotton textile laundering softener biodegradable; acrylic fiber laundering softener biodegradable; polyester fiber laundering softener biodegradable; resilience textile biodegradable fabric softener; hygroscopicity textile biodegradable fabric softener

IT Alcohols, uses

Polyoxyalkylenes, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)

IT Laundering

- (biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics for)
- IT **Quaternary ammonium** compounds, uses
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**fabric softeners**, contg. glycerol fatty acid esters, biodegradable; manuf. of biodegradable storage-stable compns. contg. glycerol fatty acid esters for imparting improved softness, resilience and hygroscopicity to fabrics)
- IT Acrylic fibers, uses
Polyester fibers, uses
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(fabrics, laundering of; biodegradable storage-stable fabric softener compns. contg. alkoxylated fatty acid esters and **quaternary ammonium** compds. for improved fabric softness, resilience and hygroscopicity for)
- IT Softening agents
(for fabrics; biodegradable storage-stable compns. contg. alkoxylated fatty acid esters and **quaternary ammonium** compds. for improved fabric softness, resilience and hygroscopicity)
- IT Textiles
Wearing apparel
(laundering of; biodegradable storage-stable fabric softener compns. contg. alkoxylated fatty acid esters and **quaternary ammonium** compds. for improved fabric softness, resilience and hygroscopicity for)
- IT Wettability
(of laundered textiles; biodegradable storage-stable fabric softener compns. for improved softness, resilience and hygroscopicity for)
- IT Biodegradable materials
(storage-stable fabric softener compns. contg. alkoxylated fatty acid esters and **quaternary ammonium** compds.)
- IT Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(coco, biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)
- IT Textiles
(cotton, laundering of; biodegradable storage-stable fabric softener compns. contg. alkoxylated fatty acid esters and **quaternary ammonium** compds. for improved fabric softness, resilience and hygroscopicity for)
- IT Fatty acids, uses
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(palm-oil, esters with ethoxylated glycerol for manuf. of biodegradable storage-stable fabric softener compns. for improved softness, resilience and hygroscopicity of fabrics)
- IT Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material

use); USES (Uses)

(palm-oil, hydrogenated, biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)

IT Fatty acids, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(satd., biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)

IT Fatty acids, uses

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(tallow, hydrogenated, esters with ethoxylated glycerol for manuf. of biodegradable storage-stable fabric softener compns. for improved fabric softness, resilience and hygroscopicity)

IT Alcohols, uses

Fatty acids, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(unsatd., biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)

IT 57-11-4, Stearic acid, uses 64-17-5, Ethanol, uses 67-63-0, Isopropanol, uses 112-57-2D, Tetraethylenepentamine, reaction products with methyloxirane-oxirane copolymer 112-80-1, Oleic acid, uses 143-07-7, Lauric acid, uses 5333-42-6 9003-11-6D, Methyloxirane-oxirane copolymer, reaction products with polyethyleneamines 9082-00-2, Polyethylene-polypropylene glycol glycerol ether 26913-06-4D, Poly[imino(1,2-ethanediyl)], reaction products with methyloxirane-oxirane copolymer 31694-55-0, Polyethylene glycol glycerol ether 58670-89-6 92171-26-1

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(biodegradable storage-stable fabric softener compns. for imparting improved softness, resilience and hygroscopicity to fabrics contg.)

IT 176550-25-7P 176550-26-8P 176550-27-9P

176550-28-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fabric softener, contg. glycerol fatty acid esters, biodegradable; manuf. of biodegradable storage-stable compns. contg. glycerol fatty acid esters for imparting improved softness, resilience and hygroscopicity to fabrics)

IT 176550-02-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fabric softener; manuf. of biodegradable storage-stable compns. contg. glycerol fatty acid esters for imparting improved softness, resilience and hygroscopicity to fabrics)

IT 56-81-5DP, Glycerin, ethoxylated, fatty acid esters 57-11-4DP, Stearic acid, palm-oil derivs., esters with ethoxylated glycerol 25322-68-3DP,

Polyethylene glycol, ethers with glycerol, fatty acid esters
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (fabric softeners; manuf. of biodegradable storage-stable compns. contg. quaternary ammonium compds. for imparting improved softness, resilience and hygroscopicity to fabrics)

IT 74-87-3, Methyl chloride, reactions 79-11-8, Chloroacetic acid, reactions 124-40-3, Dimethylamine, reactions 17658-63-8 72388-18-2 109145-21-3, Chlorobutyric acid 163531-51-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for manuf. of biodegradable fabric softeners for improved fabric softness, resilience and hygroscopicity)

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:649492 CAPLUS
 DOCUMENT NUMBER: 125:279249
 TITLE: Liquid storage-stable fabric softener compositions for imparting improved softness and hygroscopic properties to laundered fabrics
 INVENTOR(S): Yamaguchi, Noriko; Inokoshi, Junichi; Tatezawa, Osamu; Sakaguchi, Akira
 PATENT ASSIGNEE(S): Kao Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08199479	A2	19960806	JP 1995-7437	19950120
JP 3413303	B2	20030603		

PRIORITY APPLN. INFO.: JP 1995-7437 19950120

AB The compns. contain 2-1:1-9 (wt. ratio) mixts. of (A) $\text{ROCON}[\text{CH}_2\text{CH}_2\text{O}(\text{MO})\text{pH}]\text{CH}_2\text{CH}_2\text{O}(\text{MO})\text{qH}$ [I; R0 = C7-23 alkyl or alkenyl; M = C2-3 alkylene or mixt. of C2 alkylene and C3 alkylene; p, q .gtoreq.0, p + q = 0-4 (av. value)] and (B) $\text{R}_2\text{R}_3\text{R}_4\text{N}^+(\text{CH}_2)_n\text{COO}(\text{ZO})\text{mR}_1\text{X}^-$ (R1 = linear or branched C20-44 alkyl or alkenyl; R2, R3, R4 = C1-5 alkyl or hydroxyalkyl; Z = C2-3 alkylene or mixt. of C2 alkylene and C3 alkylene; m = 0-20; n = 1-6; X- = anion) or $\text{R}_2\text{R}_3\text{R}_4\text{N}^+(\text{CH}_2)_n\text{COOCH}_2\text{CH}[(\text{CH}_2)_{15}\text{Me}](\text{CH}_2)_{17}\text{Me.X}^-$ (II) and optionally contain (C) .ltoreq.110% (on B) C8-44 unsatd. alcs., (D) .ltoreq.100% (on B) linear or branched C8-36 satd. or unsatd. fatty acids, (E) .ltoreq.60% (on B) C1-4 monohydric alcs., and (F) 0.5-5% polyethers contg. .gtoreq.55% oxyethylene groups or derivs. thereof, exhibit ratio of wt. of F component to B component 1:100-2.5, and have total content of B and F components 4-45%. A liq. compn. (G) contg. 4% I (R0 = hydrogenated fatty acid-derived alkyl; p = q = 0), 16% II (R1 = R2 = R3 = R4 = Me; X = Cl), 3% iso-PrOH, and 2% polyoxyethylene lauryl ether showed no gelation on storing the compn. for 20 days at 20.degree. or 40.degree.. A cotton towel was laundered 5 cycles with a com. detergent and treated with 0.5%

(on fabric) of G compn. for 3 min at 25.degree., dried, and kept 24 h at 20.degree. and 65% relative humidity to give a towel with softness rating (+2 best, -2 worst) +2, resilience rating +2. and water absorption height 12.4 cm by a specified test.

IT 176550-02-0 176550-25-7 176550-26-8

176550-27-9

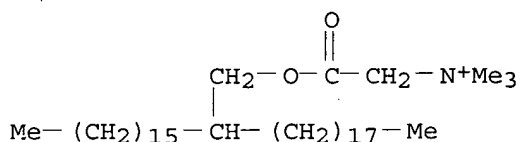
RL: TEM (Technical or engineered material use); USES (Uses)

(fabric softener, with diethanoamine alkylamide derivs.; liq.

storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)

RN 176550-02-0 CAPLUS

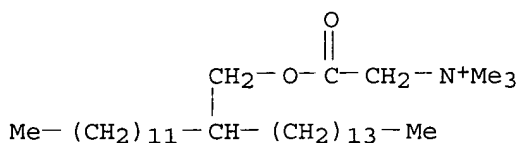
CN Ethanaminium, 2-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-25-7 CAPLUS

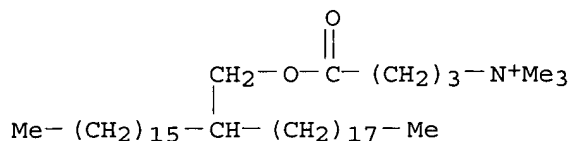
CN Ethanaminium, 2-[(2-dodecylhexadecyl)oxy]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

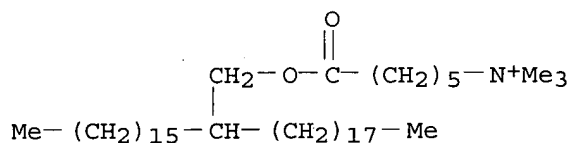
RN 176550-26-8 CAPLUS

CN 1-Butanaminium, 4-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-4-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176550-27-9 CAPLUS
CN 1-Hexanaminium, 6-[(2-hexadecyleicosyl)oxy]-N,N,N-trimethyl-6-oxo-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC ICM D06M013-463
CC 46-5 (Surface Active Agents and Detergents)
Section cross-reference(s): 40
ST diethanolamine alkylamide deriv liq fabric softener; **quaternary ammonium** compd liq fabric softener; polyoxyalkylene deriv liq fabric softener; storage stability liq fabric softener; laundered textile liq fabric softener; garment laundered liq fabric softener; resilience laundered textile liq softener; cotton textile laundered liq fabric softener
IT **Quaternary ammonium** compounds, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**fabric softeners**, with diethanoamine alkylamide derivs.; liq. storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)
IT Softening agents
(for fabrics; liq. storage-stable compns. contg. diethanolamine alkylamide derivs. and **quaternary ammonium** compds. for imparting improved softness and hygroscopic properties to laundered fabrics)
IT Acrylic fibers, uses
Polyester fibers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(laundered fabrics; liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties for)

- IT Textiles
 - Wearing apparel
 - (laundered; liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties for)
- IT Alcohols, uses
 - Polyoxyalkylenes, uses
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties to laundered fabrics contg.)
- IT Laundering
 - (liq. storage-stable **fabric softeners** for imparting improved softness and hygroscopic properties to fabrics for)
- IT Textiles
 - (cotton, laundered; liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties for)
- IT **Quaternary ammonium** compounds, uses
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (dimethylditallow alkyl, chlorides, liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties to laundered fabrics contg.)
- IT Fatty acids, uses
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (unsatd., linear or branched; liq. storage-stable fabric softener compns. for imparting improved softness and hygroscopic properties to laundered fabrics contg.)
- IT Alcohols, uses
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (unsatd., liq. storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)
- IT 176550-02-0 176550-25-7 176550-26-8
176550-27-9 176550-28-0
 - RL: TEM (Technical or engineered material use); USES (Uses)
 - (fabric softener, with diethanoamine alkylamide derivs.; liq. storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)
- IT 111-42-2D, N,N-Diethanolamine, fatty acid alkylamide derivs.
 - RL: TEM (Technical or engineered material use); USES (Uses)
 - (fabric softener, with **quaternary ammonium** compds.; liq. storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)
- IT 5333-42-6 17658-63-8 58670-89-6 72388-18-2
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (liq. storage-stable compns. for imparting improved softness and hygroscopic properties to laundered fabrics)
- IT 67-63-0, Isopropanol, uses 112-57-2D, Tetraethylenepentamine, reaction products with oxirane-methyloxirane copolymer 112-80-1, Oleic acid, uses 9002-92-0, Polyoxyethylene lauryl ether 9003-11-6D, Oxirane-

methyloxirane copolymer, reaction products with polyamines 9082-00-2,
 Polyethylene polypropylene glycol glycerol ether 26913-06-4D,
 Polyethylenimine, reaction products with oxirane-methyloxirane copolymer
 31694-55-0, Polyethylene glycol glycerol ether 34004-36-9D, tallow fatty
 acid esters 38402-02-7D, tallow fatty acid esters 56449-05-9,
 Polyethylene polypropylene glycol sorbitol ether
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)

(liq. storage-stable fabric softener compns. for imparting improved
 softness and hygroscopic properties to laundered fabrics contg.)

L12 ANSWER 15 OF 17. CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:964987 CAPLUS
 DOCUMENT NUMBER: 124:149263
 TITLE: Solvent-free quaternization of tertiary amines with
 dimethyl sulfate
 INVENTOR(S): Brown, David M.; Gatter, Erich M.; Littau, Cheryl A.
 PATENT ASSIGNEE(S): Hoechst Celanese Corporation, USA
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5463094	A	19951031	US 1994-247804	19940523
EP 684223	A1	19951129	EP 1995-107474	19950517
R: BE, DE, ES, FR, GB, IT, NL, SE				
CA 2149815	AA	19951124	CA 1995-2149815	19950519
JP 07316124	A2	19951205	JP 1995-122560	19950522

PRIORITY APPLN. INFO.: US 1994-247804 19940523

OTHER SOURCE(S): MARPAT 124:149263

AB Tertiary amines NR1R2R3 [R1-R3 = C1-20 hydroxyalkyl, C1-20 dihydroxyalkyl,
 polyoxyalkylene (alkylene = ethylene and/or propylene), esters of the
 above with C1-20 carboxylic acids, C1-20 alkyl, C2-20 alkenyl, C2-20
 alkynyl, C3-8 cycloalkyl, (un)substituted Ph, phenylalkyl] are quaternized
 by treatment with Me2SO4 in an inert atm. at a rate which permits
 maintaining the temp. .gtoreq.5.degree. above the product m.p., yet below
 the temp. at which the product undergoes thermal degrdn., until the Me2SO4
 is completely consumed. The **quaternary ammonium** Me
 sulfates may be used in fabric softening and other applications.

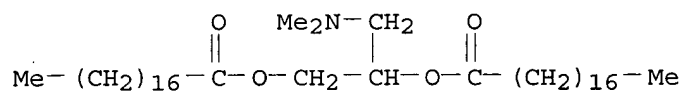
IT 121315-93-3, 3-(Dimethylamino)-1,2-propanediol distearate

RL: RCT (Reactant); RACT (Reactant or reagent)

(solvent-free quaternization of tertiary amines with di-Me sulfate)

RN 121315-93-3 CAPLUS

CN Octadecanoic acid, 1-[(dimethylamino)methyl]-1,2-ethanediyl ester (9CI)
 (CA INDEX NAME).



- IC ICM C07C219-02
- ICS C07C209-00
- NCL 554110000
- CC 46-3 (Surface Active Agents and Detergents)
- Section cross-reference(s): 21
- ST quaternization tertiary amine solvent free; cationic surfactant manuf
fabric softener
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (benzylcoco alkylmethyl; solvent-free quaternization of tertiary amines
with di-Me sulfate)
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (benzyldicoco alkyl; solvent-free quaternization of tertiary amines
with di-Me sulfate)
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (benzylditallow alkyl; solvent-free quaternization of tertiary amines
with di-Me sulfate)
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (benzylmethyltallow alkyl; solvent-free quaternization of tertiary
amines with di-Me sulfate)
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (methylditallow alkyl; solvent-free quaternization of tertiary amines
with di-Me sulfate)
- IT Quaternization
- (solvent-free quaternization of tertiary amines with di-Me sulfate)
- IT Softening agents
- (tertiary amines quaternized with di-Me sulfate as **fabric
softeners**)
- IT **Quaternary ammonium** compounds, uses
- RL: IMF (Industrial manufacture); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
- (tertiary amines quaternized with di-Me sulfate as **fabric
softeners**)
- IT Amines, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (bis(hydrogenated tallow alkyl)methyl, solvent-free quaternization of
tertiary amines with di-Me sulfate)
- IT Fatty acids, reactions
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (coco, esters, with amino alcs.; solvent-free quaternization of
tertiary amines with di-Me sulfate)
- IT Amines, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(dicoco alkylmethyl, solvent-free quaternization of tertiary amines with di-Me sulfate)

IT Amines, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(tallow alkyl, ethoxylated, solvent-free quaternization of tertiary amines with di-Me sulfate)

IT Fatty acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(tallow, esters, with amino alcs.; solvent-free quaternization of tertiary amines with di-Me sulfate)

IT 32208-01-8P 164386-66-7P, (2,3-Dihydroxypropyl)trimethylammonium methyl sulfate 173666-08-5P, Benzyl (2-hydroxyethyl)dimethylammonium methyl sulfate 173666-10-9P

RL: IMF (Industrial manufacture); PREP (Preparation)
(solvent-free quaternization of tertiary amines with di-Me sulfate)

IT 77-78-1, Dimethyl sulfate 101-06-4, 2-(Dibenzylamino)ethanol 101-98-4, Benzyl (2-hydroxyethyl)methylamine 102-71-6, reactions 105-59-9, Methyldiethanolamine 105-59-9D, Methyldiethanolamine, fatty acid esters 108-01-0, Dimethylethanolamine 108-01-0D, Dimethylethanolamine, fatty acid esters 108-16-7 108-16-7D, fatty acid esters 623-57-4, 3-(Dimethylamino)-1,2-propanediol 1793-68-6, Triethanolamine monolaurate 2915-90-4, Dilaurylmethylamine 4088-22-6, Methyldistearylamine 4100-75-8, Benzylidilaurylamine 4402-30-6 4402-30-6D, fatty acid esters 7173-65-1 10248-74-5, Triethanolamine monostearate 10277-04-0, Triethanolamine monooleate 13412-15-2, Triethanolamine distearate 13998-76-0, Methyldiethanolamine distearate 16724-61-1, Methyldipalmitylamine 32208-16-5, Bis(2-hydroxypropyl)methylamine distearate 36064-98-9, Methyldiethanolamine monolaurate 37413-59-5, Benzylidistearylamine 37788-36-6, Benzylmethylstearylamine 39840-30-7, Dimethylaminoethyl stearate 40817-22-9, Dimethylaminoethyl oleate 41961-81-3, Methyldimyristylamine 42228-72-8, Triethanolamine dilaurate 45295-86-1, Triethanolamine monopalmitate 47461-80-3, Benzylmethylpalmitylamine 52994-46-4 54999-00-7, Triethanolamine dioleate 63833-72-7, Methyldiethanolamine monostearate 68397-57-9, Benzyl laurylmethylamine 70544-98-8, Methyldiethanolamine dioleate 79521-19-0, Benzylidipalmitylamine 83690-72-6, Benzylmethylmyristylamine 92613-20-2, Triethanolamine dipalmitate 109181-06-8 121315-93-3, 3-(Dimethylamino)-1,2-propanediol distearate 150831-43-9, Methyldiethanolamine monooleate 150831-44-0 163675-89-6 173665-98-0, Bis(2-hydroxypropyl)methylamine monostearate 173665-99-1, Bis(2-hydroxypropyl)methylamine monooleate 173666-00-7, (Hydroxypropyl)dimethylamine stearate 173666-01-8, Ethoxylated benzylmethylamine 173666-02-9 173666-03-0, Benzylidimyristylamine 173666-04-1, Benzylidioleylamine 173666-05-2 173666-06-3, Triethanolamine dimyristate 173666-07-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(solvent-free quaternization of tertiary amines with di-Me sulfate)

L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1979:559377 CAPLUS

DOCUMENT NUMBER: 91:159377

TITLE: Textile softener-rinsing agent
 INVENTOR(S): Rule, Robert Brian; Wells, Martin Alan; Dance, John David
 PATENT ASSIGNEE(S): Unilever N. V., Neth.
 SOURCE: Ger. Offen., 31 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2846921	A1	19790503	DE 1978-2846921	19781027
DE 2846921	C2	19890202		
FR 2407260	A1	19790525	FR 1978-20657	19781027
FR 2407260	B1	19830211		
SE 7811250	A	19790501	SE 1978-11250	19781030
SE 444010	B	19860317		
SE 444010	C	19860626		
NL 7810775	A	19790502	NL 1978-10775	19781030
NL 187129	B	19910102		
NL 187129	C	19910603		
NO 7803656	A	19790502	NO 1978-3656	19781030
NO 150847	B	19840917		
NO 150847	C	19850109		
ZA 7806109	A	19800625	ZA 1978-6109	19781030
AT 7807742	A	19831115	AT 1978-7742	19781030
AT 375090	B	19840625		
CH 642696	A	19840430	CH 1978-11186	19781030
BE 871714	A1	19790430	BE 1978-191493	19781031
GB 2007735	A	19790523	GB 1978-42556	19781031
GB 2007735	B2	19820224		

PRIORITY APPLN. INFO.: GB 1977-45254 19771031

AB Complexes of a **quaternary ammonium** compd. having 1 long aliph. hydrocarbon group, such as (3-behenoyloxy-2-hydroxypropyl)trimethylammonium chloride [69537-38-8] or cetyltrimethylammonium bromide (I) [57-09-0], with an anionic surfactant having 1 long aliph. hydrocarbon group form stable liq. dispersions and are useful as fabric softeners suitable for addn. during the rinse cycle. Thus, I 9, Na alkylbenzenesulfonate 5.82, iso-PrOH 8, and H2O 4 parts were mixed at 70.degree. and dild. with 173.18 parts H2O to prep. a stable dispersion.

IT 69537-38-8

RL: USES (Uses)

(softening agents, for textiles, stable dispersions contg. anionic surfactants and)

RN 69537-38-8 CAPLUS

CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(1-oxodocosyl)oxy]-, chloride (9CI) (CA INDEX NAME)